



# The New ISD BSR – What you Need to Know

**July 21, 2005** 

**Presented by: Ella Page** 

Software Process Improvement (SPI) Project



### **Purpose and Objectives**



- Purpose: To provide an overview of the new bi-monthly MSR template reporting requirements
  - The Branch (or Division) Status Review (BSR)
- Objective After this session you should know:
  - What information is required in a BSR
  - How to effectively present the information on BSR charts
  - Some of the dos and don'ts in preparing a BSR presentation



#### **The ISD Branch Status Review Template**



- Where can you find the BSR template?
  - Go To http://software.gsfc.nasa.gov/ISDpaIndx.cfm
  - See Asset 1.4.3.4, ISD Branch Status Review Template
- What's in the asset?
  - Template Purpose, Scope, and Tailoring information (pages 1-2)
  - Template for preparing a BSR (pages 3-16)
  - BSR Template Guidance (pages 17-37)
- When do you have to use it?
  - Now!



#### **BSR Content Overview**



- What's in the BSR? \*\*\*
  - Overall Project Status
  - Project Staffing Summary and Schedule Information
  - General Software Project Status
    - Accomplishments
    - Deliverables
    - Receivables
    - Commitments
  - Technical and Management Issues and Concerns
  - Software Project Risk Status
  - Software Project Metrics

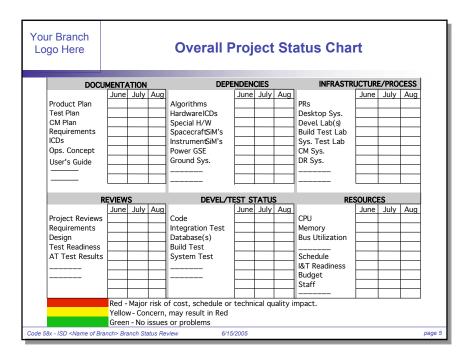
<sup>\*\*\*</sup> This is information you should use in managing your project, so you should have all the data at hand as you create the slides.



#### **Overall Project Status**



- Summarize the overall state of the project in 1 page
  - Set the stage for the review
  - Focus on your message(s) for management
  - Messages are the key "good" points and the key risk or problem areas



Your Branch **Overall Project Status** Logo Here Summarize the overall state of the project Present major "message(s)" you want Branch Management to know ab out the status of your project - Use only 1 text slide to set the stage for what follows Use a second slide to present a three month G/Y/R temperature ch art (Optional) This is NOT the slide to present: - Detailed status in a series of bullets A list of issues or concerns A list of major accomplishments Sample "Messages": - Implementation of Release 2 is two weeks ahead of schedule; the test team is preparing to start testing earlier than planned Interface testing with the customer's system is showing good res ults; customer Delays in receipt of user requirements may impact the SRR; meeti ngs are in progress with the user Project is fully staffed; added three people to the team as plan ned

Provide a "Red/Yellow/Green" chart that covers 3 reporting periods (last 2 and current)

Code 58x - ISD <Name of Branch> Branch Status Review

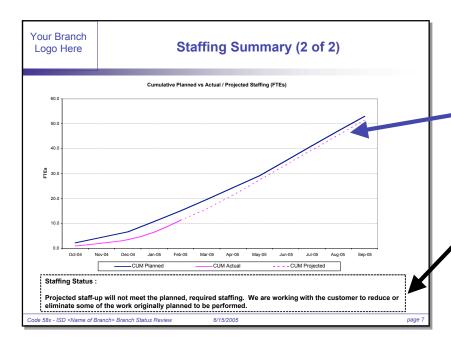
- You set up the boxes and the "color" criteria
- Update project status based on the approved criteria



### **Project Staffing Summary**



- Show planned versus actual staffing
- Planned data comes from your project plan
- Actual data comes from WebTADs for civil servants, or it comes from contractors





Show FTE data monthly, cumulatively, or both ways

Provide a text box with, staffing analysis\*

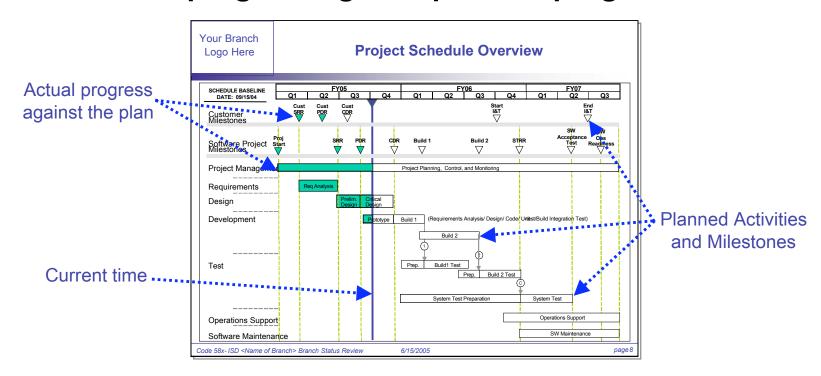
- Identify why you have a variance (such as changes in requirements, budget).
- Identify the impact of variance
- Identify corrective actions planned or taken.



#### **Project Schedule Overview**



- Provide an overview of your baselined schedule for major lifecycle phase activities and milestones
- Get schedule information from your project plan
- Get progress data from your measurement activities
- Show actual progress against planned progress

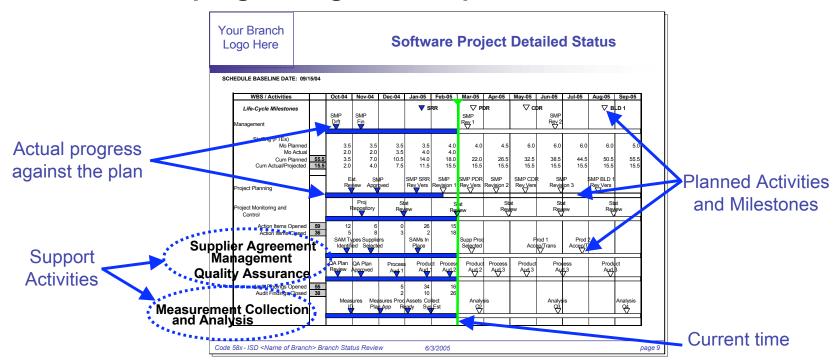




### **Software Project Detailed Status**



- Provide a more detailed schedule based on major WBS elements and milestones
- Include technical and support milestones
- Get schedule information from your software project plan
- Get progress data from your measurement activities
- Show current progress against the plan

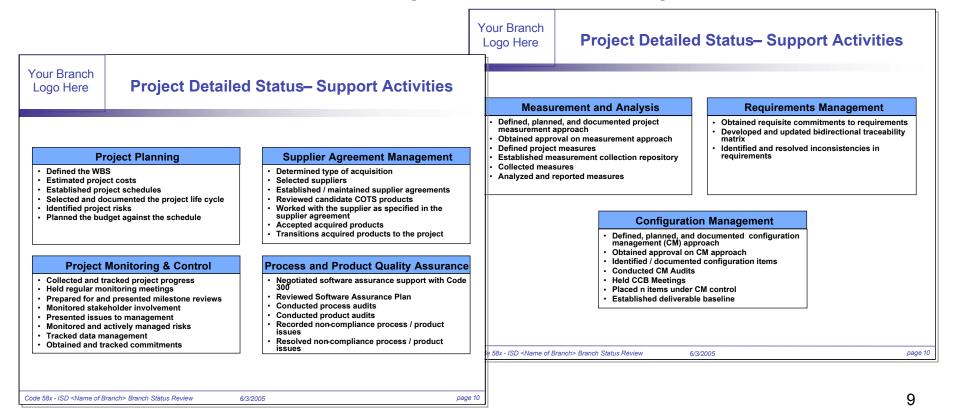




#### **Detailed Support Activities**



- These represent the support details that should be included in your schedule
- Each support area must be addressed with some process activities as appropriate to the current phase
- Provide details of work planned and accomplished





# General Software Project Status - Accomplishments



- Describe what was planned for this period
- Describe accomplishments for this period
- Describe plans for next period
- Report on technical areas, including
  - Completing products
  - Technical activities
  - Meeting milestones
  - Supporting customer events
- Report on support (i.e., process) areas, including
  - Software Project planning
  - Software Project monitoring and control
  - Supplier agreement management
  - Process and product quality assurance
  - Configuration management
  - Requirements management
  - Measurement and analysis



### Sample Accomplishments Slide



Your Branch **Accomplishments** Logo Here Planned Activities -Obtain-commitment on funding for FY05 Established the CM approach and obtained Branch Management · Prepared CM Plan draft and distributed it for review by the development, test, and customer teams **Future Plans** · Obtain commitment on funding for FY05 Deliver and obtain comments on Project Management Plan Review version Development Planned Activities Complete initial engineering evaluation Code 58x - ISD Name of Branch> Branch Status Review page 10

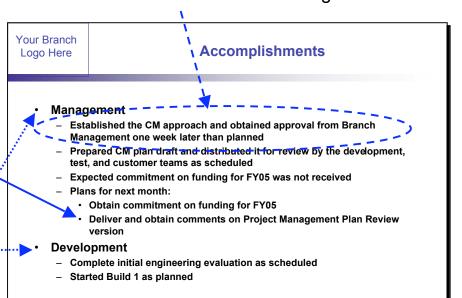
Use short bulleted phrases

Organize based on high-level WBS

Base planned and accomplished description on CURRENT reporting period only. Based future plans on next reporting period only.

> Break planned work, accomplishments, and future plans out separately

Differentiate through text



Code 58x - ISD <Name of Branch> Branch Status Review



# **General Software Project Status – Deliverables / Receivables / Commitments**



- List all project deliverables, receivables, and commitments
  - For the current reporting period
  - For at least the next two reporting periods (and further in the future if of particular criticality or interest (for example, deliver to I&T)

#### Minimum information must include

- Name of the deliverable, receivable, or commitment item
- An indicator of the type of item (i.e., deliverable, receivable, or commitment)
- Both planned and actual dates for each item

Consider using the following table to provide this information. Other formats are acceptable as long as they include the requisite information.

|           | Item type                                |      |          | Planned and actual dates |   |  |
|-----------|--|------|----------|--------------------------|---|--|
| Item name | Deliverables / Receivables / Commitments | Type | Planned  | Actual                   | Notes / Comments /<br>Schedule Analysis                                 |  |
|           | FY05 Funding Approved                    | Ċ    | 10/01/04 | 12/15/04                 | Acceptable funding approved. No impact on delay of receipt of approval. |  |
|           | Configuration Management Plan            | D    | 11/01/04 | 11/01/04                 | Distribution to all parties completed on schedule.                      |  |
|           | User Requirements                        | R    | 01/15/05 |                          |   |  |



#### **Issues and Concerns**



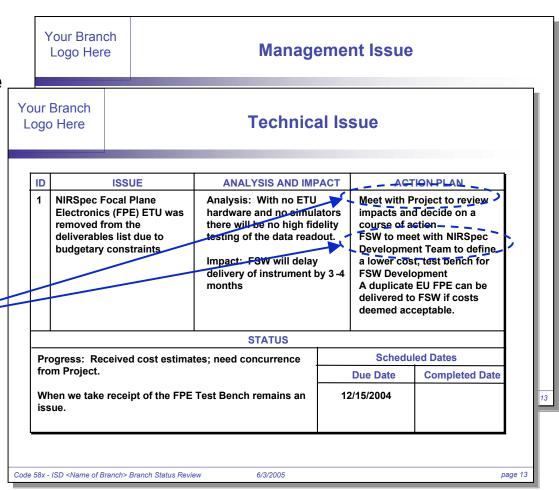
- Address the software project's issues and concerns including, at a minimum:
  - A brief description of the issue/concern
  - An analysis of the issue/concern
  - Specific impact(s) on your software project
  - Specific internal and external stakeholders who are affected or should be involved in the resolution process
- Separate technical and management issues and concerns
  - Management issues worked by PDL and management
  - Technical issues worked by technical teams
- Use a format that can fully describe the required items



## **Issues and Concerns Suggested Format**



- One Issue/Concern per slide
- Show required information:
  - A brief description of the issue/concern
  - An analysis of the issue/concern
  - Specific impact on your project
- Be sure to note where specific internal and external stakeholders are involved



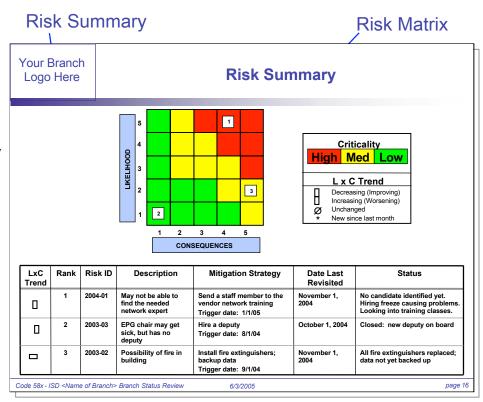


### **Software Project Risk Status**



- Provide a summary of each major software project risk and a risk matrix
- Include, at a minimum, all "RED" risks
- Present a clear, concise statement of:
  - The risk mitigation strategy
  - Date last revisited
  - Status information such as
    - Current activities
    - Time period that risk is active
    - Event/date that triggers the risk's mitigation

Below is a Risk Summary example. Other formats are acceptable if the requisite information is included.





### **Software Project Metrics**



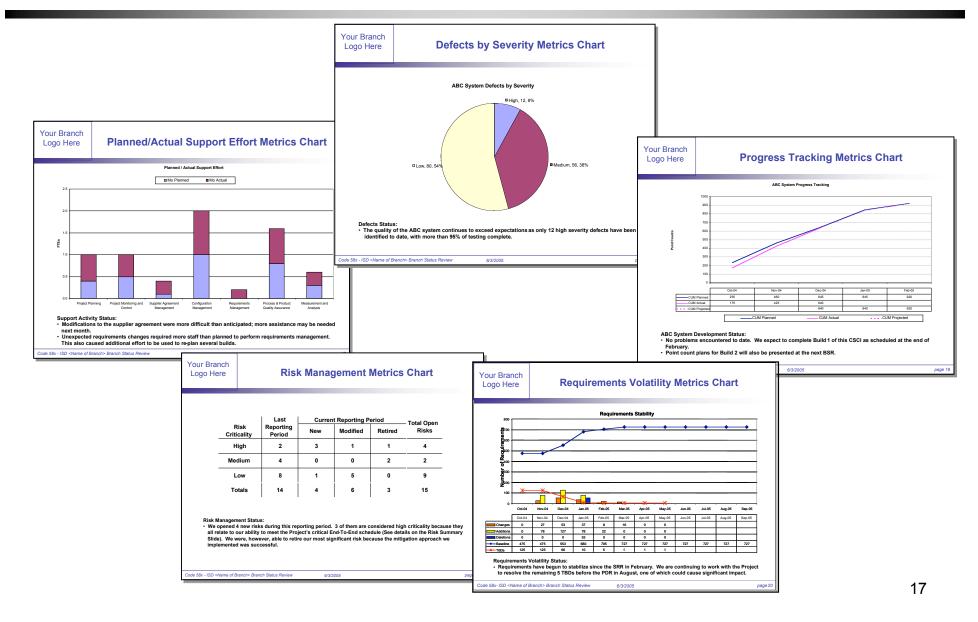
- Include slides that address all measures specific to your software project, including Risk Management Metrics
  - See http://software.gsfc.nasa.gov/MeasProj.htm for information on measurement for software projects
  - See <a href="http://software.gsfc.nasa.gov/discussionslides.cfm">http://software.gsfc.nasa.gov/discussionslides.cfm</a>

     for Measurement and Analysis for ISD
     <a href="https://software.gsfc.nasa.gov/discussionslides.cfm">https://software.gsfc.nasa.gov/discussionslides.cfm</a>
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- Use charts or graphs to show data
- Include a short analysis description



## **Example Slides for Project Metrics**

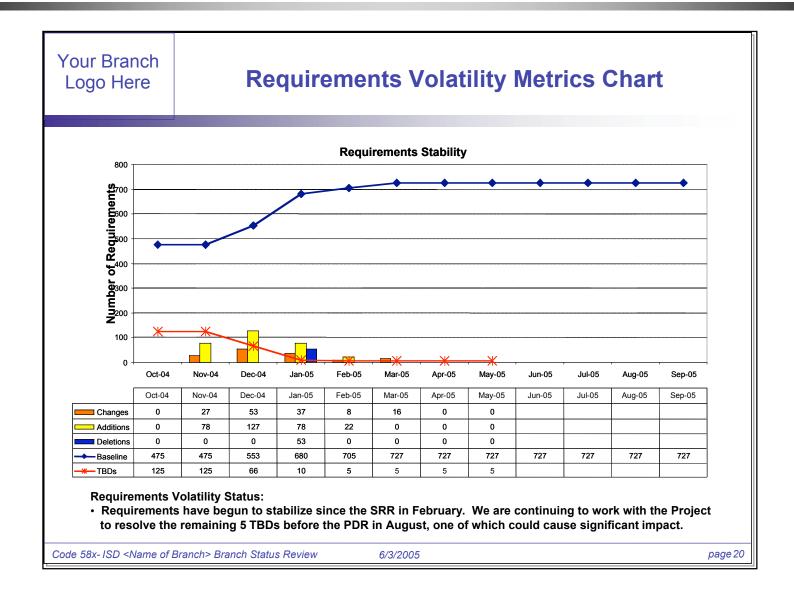






# **Example Requirements Volatility Chart**







### **Example Risk Metrics Chart**



Your Branch Logo Here

#### **Risk Management Metrics Chart**

| Risk<br>Criticality | Last<br>Reporting<br>Period | Curren | – Total Open |         |       |
|---------------------|-----------------------------|--------|--------------|---------|-------|
|                     |                             | New    | Modified     | Retired | Risks |
| High                | 2                           | 3      | 1            | 1       | 4     |
| Medium              | 4                           | 0      | 0            | 2       | 2     |
| Low                 | 8                           | 1      | 5            | 0       | 9     |
| Totals              | 14                          | 4      | 6            | 3       | 15    |

#### **Risk Management Status:**

We opened 4 new risks during this reporting period. 3 of them are considered high criticality because they
all relate to our ability to meet the Project's critical End-To-End schedule (See details on the Risk Summary
Slide). We were, however, able to retire our most significant risk because the mitigation approach we
implemented was successful.

6/3/2005



#### **Outline of a Tailored BSR for FSW**



**FSW Status Summary** 

**FSW Significant Events** 

**FSW System Engineering Activities** 

**FSW Schedule Overview** 

**FSW Risks** 

FSW Status of documents, receivables, deliverables

**FSW Staffing – Planned Versus Actuals** 

**FSW Staffing Assignments** 

**FSW Development and Test Teams' Status** 

- Accomplishments
- Detailed Schedule
- Metrics (Point Counts and other metrics)
- Issues and Concerns
- Process Monitoring



#### **BSR Dos and Don'ts**



- Do remember to report the good news as well as the problems
- Do focus on the CURRENT reporting period progress and next period plans
- Do understand the metric data needed collect and analyze it regularly
- Don't forget to report on activity (process) status as well as product status
- Don't report the "nitty-gritty" details this is a management-level review
- Don't forget to report the problems and issues get management help if needed
- Don't try to remember everything at the end of the month ... make notes along the way



#### **Summary**



- Make sure you present the required information
  - Use the ISD Branch Status Review Template, Asset 1.4.3.4, as a guide
  - Use your organization's template as a guide
- Keep your focus at a high level except for high impact issues, concerns, and risks
- Report progress on both technical and support activities relative to plan
- Collect your metric data as you go and the report will be easy to put together
- Analyze the metric data and understand the impact of the numbers – you need this to manage your project
- Use tools like Excel spreadsheets to create your charts when possible
- Tailor your reporting approach to the software classification and size



### **Getting Help for Your BSR**



- Get help when you need it
  - Sally Godfrey Software Process Improvement Manager
    - Sara.H.Godfrey@nasa.gov
  - Sanjeev Sharma Software Process Improvement
    - Sanjeev.K.Sharma@nasa.gov



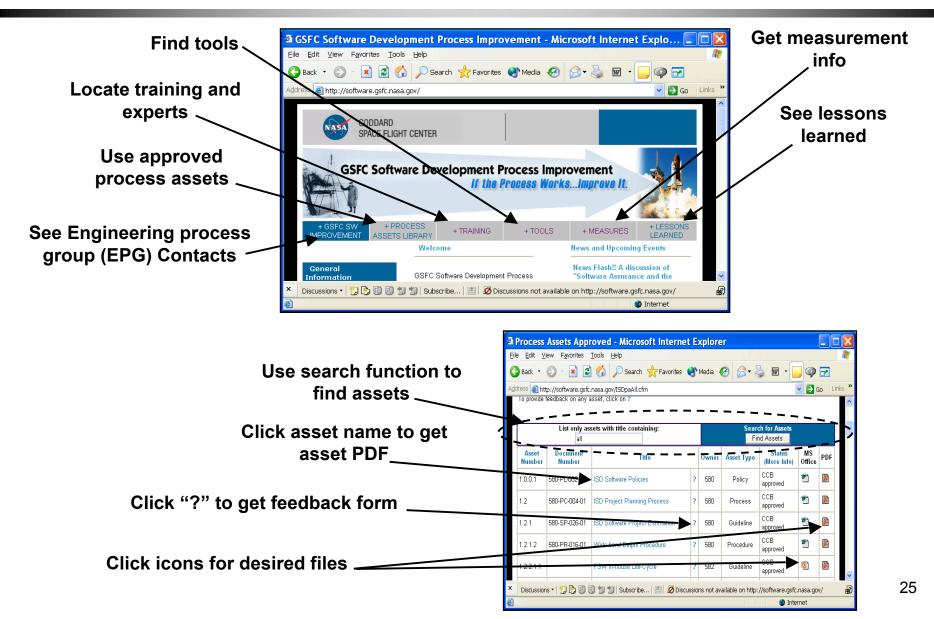


# Questions?



# July 21, 2005 – Using the website http://software.gsfc.nasa.gov/

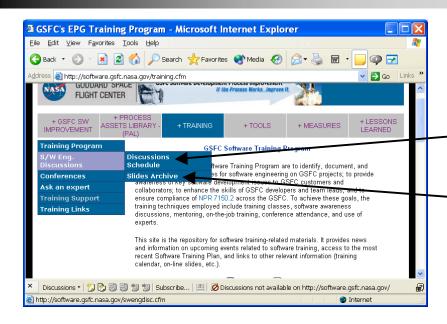






# July 21, 2005 – Accessing Presentation Slides From the Website





For SW Engineering Discussions ... Click "Training" and highlight "S/W Eng. Discussions"

Access SW Engineering Discussion schedule: (http://software.gsfc.nasa.gov/swengdisc.cfm)

Access slides from past SW Engineering Discussions:

(http://software.gsfc.nasa.gov/swengdisc.cfm)

For Other On-Line Slides... Click "Training" and highlight "Training Program"

Access slides from other useful presentations

